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Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: Office action dated 12/12/06 regarding U.S. patent application number 10/734,601

Dear Sirs:

This letter is responsive to the office action dated 12/12/06 (copy attached) regarding U.S. patent application number 10/734,601.

Claim rejections under USC Section 102:

The examiner rejects claims 1-4, 7, 15-19 and 21-22 under 35 U.S.C. 102(e) as being anticipated by Gainey (US Pub. 20040157551), stating that:

"Gainey et al. disclose a method of routing a wireless signal between two points, said method comprising the steps of:
transmitting a wireless signal from an originating transmitter (see fig. 1, element 110); receiving said wireless signal at a first set of repeating transceivers (see fig.1, element 100-1, see par.031, it is considered that at least another the repeater is placed in the building to relay signals to the final destination); in each said repeating transceiver, delaying said wireless signal by at least one predetermined delay and re-transmitting said wireless signal (see par.020); and receiving said re-transmitted wireless signals at a destination receiver (see par.031-32).
Regarding claim 2, Gainey et al. disclose the signal received at each said repeating transceiver is mixed to an intermediate frequency before said re-transmitting (see par.039, 049-050)."

The Gainey patent application discloses a simple repeater method which does not include correlation of multiple incoming signals. If multiple repeaters according to Gainey were placed in the same building in the way the examiner proposes, such that more than one repeater repeated the signal to a given receiver, the uncorrelated transmissions from the two repeaters would create an interference pattern that could completely cancel at the intended receiver. That is why repeaters of the type described in Gainey are always